Name_____Date_____Class_____

Stretching and Shrinking: Check Up 2 for use after Investigation 3

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1. Use the given rectangle for both questions a. and b.
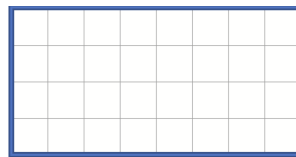
   a. If you make a new rectangle using a scale factor is 2 ½, what are the measures of the sides? Show your work.

   b. If you make a new rectangle using a scale factor is ¾, what are the measures of the sides? Show your work.

2. The drawing is a model of triangle *ABC* and triangle *ADE*.
   Δ*ABC* is nested in Δ*ADE*.
   The two triangles are similar.
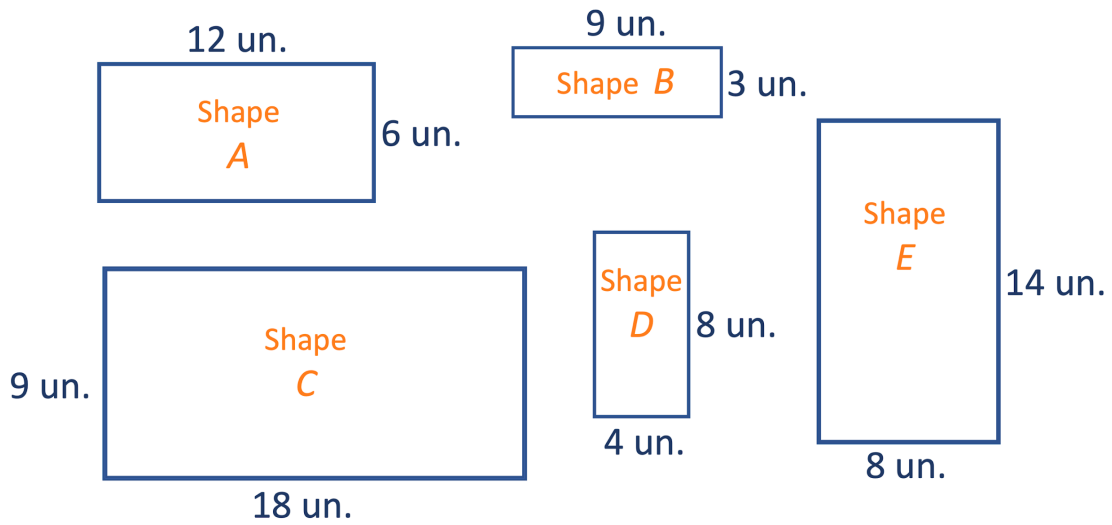
   a. Find the length of $\overline{AC}$.
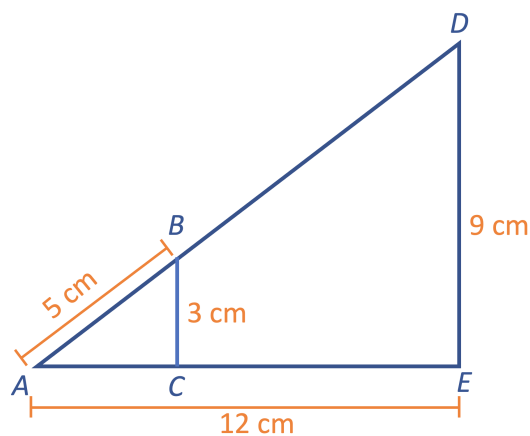
   b. Find the length of $\overline{AD}$

   c. How many times larger is the perimeter of triangle ADE compared to triangle ABC?

d. How many times larger is the area of triangle ADE compared to triangle ABC?

3. a) Circle the rectangles below that are scale drawings of (or similar to) Shape A. All the rectangles are drawn to scale.

12 un.

Shape
A

6 un.

9 un.

Shape B   3 un.

Shape
E

14 un.

Shape
D   8 un.

Shape
C

9 un.

4 un.

8 un.

18 un.

b) What is the scale factor from Shape A to each of the rectangles that are scale drawings?

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